PTO 12S2-2AYR2-133-1

FORMERLY T.O. 12347849

VOLUME NO. 1

WARNING

THIS MANUAL CONTAINS UNVERIFIED PROCEDURES. REFER TO THE VERIFICATION STATUS PAGE(S) PRIOR TO PERFORMING ANY OPERATION OR MAINTENANCE PROCEDURES.

PRELIMINARY

TECHNICAL MANUAL

MAINTENANCE INSTRUCTIONS

DEPOT LEVEL

SAMPLE MIL-STD-38784 MANUAL
PASSIVE DETECTION RECEIVING SYSTEM AN/AYR-2
AC/DC CONVERTER,CV-4259/A

SUBTITLE

BOEING DEFENSE SPACE GROUP
F19628-94-C-0089

This manual superseded by T.O. ########

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Published Under Authority of the Secretary of the Air Force

Continued on T-2 Page

1 MAY 1997 **Change 1 - 15 January 2002**

This manual is incomplete without T.O. ########

The effective date of this publication is effective 15 January 2002

This volume of data is incomplete without the additional volumes

Testing for cognizant activity or something

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

LIST OF EFFECTIVE PAGES

NOTE The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by shaded or screened areas, or by miniature pointing hands.

Dates of issue for original and changed pages are:

Original..... 0 .....01 January 2002
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TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 94 CONSISTING OF THE FOLLOWING:

Page No.	*Change No.	Page No.	*Change No.	Page No.	*Change No.
Title	1	7-5	0	Index 2 Blank	0
T-2	1	7-6 Blank	0	FP-1	0
A	1	7-7	0	FP-2 Blank	0
B Blank	1	7-8 Blank	0	FP-3	0
i	0	7-9	0	FP-4 Blank	0
ii Blank	0	7-10 Blank	0	FP-5	0
iii - iv	1	7-11	0	FP-6 Blank	0
v	1	7-12 Blank	0	FP-7	0
vi Blank	1	8-1 - 8-11	0	FP-8 Blank	0
vii - xii	0	8-12 Blank	0	FP-9	0
1-1 - 1-8	0	8-13	0	FP-10 Blank	0
2-1 - 2-2	0	8-14 Blank	0	FP-11	0
3-1 - 3-3	0	8-15	0	FP-12 Blank	0
3-4 Blank	0	8-16 Blank	0	FP-13	0
4-1	0	A-1	0	FP-14 Blank	0
4-2 Blank	0	A-2 Blank	0	FP-15	0
5-1 - 5-3	0	B-1	0	FP-16 Blank	0
5-4 Blank	0	B-2 Blank	0	FP-17	0
6-1 - 6-2	0	Glossary 1	0	FP-18 Blank	0
7-1 - 7-3	0	Glossary 2 Blank	0	FP-19	0
7-4 Blank	0	Index 1	0	FP-20 Blank	0

*Zero in this column indicates an original page

Technical Publications Deficiency Report.

Identification/ QA Sequence Number	Location
activity1 tpdrno1	Location 1
activity2 tpdrno2	Location 2
activity3 tpdrno3	Location 3
activity4 tpdrno4	Location 4
activity5 tpdrno5	Location 5

TABLE OF CONTENTS

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

LIST OF TABLES

INTRODUCTION

1 PURPOSE OF MANUAL.

This manual along with T.O. 8C14-6-6-33 provides the overhaul instructions necessary to inspect and repair the AC/DC Converter, CV-4259/A. The AC/DC converter is part of the Electronic Support Measures System (ESMS).

2 SCOPE OF MANUAL.

This manual includes AC/DC converter description, disassembly, cleaning, inspection, repair and replacement, assembly, schematic diagram, and procedures for Environmental Stress Screening (ESS).

3 NONSTANDARD ABBREVIATIONS.

Abbreviations used in this manual conform to MIL-STD-12, except for the following nonstandard abbreviations.

TERM	DEFINITION
ESMS	Electronics Support Measures System
ESS	Environmental Stress Screening
HMIS	Hazardous Materials Information System
MSDS	Material Safety Data Sheet
OSHA	Occupational Safety and Health Act
SRU	Shop Replaceable Unit

4 SYMSECTION.

test for this section

TITLE

Term	Def
Term	Def
Term	Def

5 ABBREVIATION SECTION.

Test for Abbreviation Title

SD	Schematic Diagram
WD	Wiring Diagram

6 LIST OF APPLICABLE TECHNICAL MANUALS.

Introduction material for the list of applicable technical manuals for the purpose of testing data in preparation for release. What follows is the tabular material developed to represent the list of applicable technical manuals. The tabmat element is used and the tabular format is generic with no title.

7 APPLICABILITY.

Test paragraph for applicability cross references and to ensure that the Applic table is correctly formatted.

Applicability

Term	Definition
Term1	Definition Number 1
Term2	Definition Number 2
Term3	Definition Number 3
Term4	Definition Number 4

NOTE

Text for checking International Standard paragraph in the front matter.

8 LIST OF RELATED PUBLICATIONS.

Introduction material for the list of related publications for the purpose of testing data in preparation for release. What follows is a content specific table for List of Related Publications.

List of Related Publications.

TO Number	Title	Part/Type Des/Model Number
1234, 2345	MANUAL 12345 - XREF	XXXXXAB
12	TEST AGAIN	

9 TIME COMPLIANCE TECHNICAL ORDERS.

Introduction material for time compliance technical order test for purpose of testing data and functions in preparation for release.

List of Time Compliance Technical Orders.

TCTO Number	TCTO Title	TCTO Date
AB	38784STD-BV4_test.sgml	3 March 2000
CD	38807C-AV3D0P0_test.sgml	18 April 2000
EF	87929B-AV3D3P0_test.sgml	25 July 1999
GH	83495B-CV3D0P0_test.sgml	16 May 2000

10 RECORD OF APPLICABLE DIRECTIVES.

Introductory test into the record of application directives table that appears in the front matter of the 38784 book. This sample paragraph is for test data only.

Record of Applicable Technical Directives.

Type /No.	Date	Title and ECP No.	Date Inc.	Remarks
Typeno 1	5 September 2001	Title Number 1	9/5/01	Test 1
Typeno 2	5 September 2001	Title Number 2 Ecpno 1	9/5/01	Test 2
Typeno 3	5 September 2001	Title Number 3 Ecpno 2	9/5/01	Test 3

SAFETY SUMMARY

1 WARNING AND CAUTION STATEMENTS.

Warning and caution statements have been strategically placed throughout this manual prior to maintenance procedures, practices, or conditions considered essential to the protection of OCP personnel, equipment, or property. A warning or caution will apply each time the referenced step is repeated. Prior to HCP starting a task, the warnings and cautions included in procedure for task will be reviewed and understood. HCI The following definitions apply to warnings and cautions found throughout this manual.

WARNING

An operation or maintenance procedure, practice, condition, statement, etc., which, if not strictly observed, could result in injury to or death of personnel.

CAUTION

An operation or maintenance procedure, practice, statement, etc., which if not strictly observed, could result in damage to or destruction of equipment, or loss of mission effectiveness.

2 GENERAL PRECAUTIONS.

The following are general safety precautions that are not related to any specific procedure and therefore do not appear elsewhere in this publication. These are precautions that personnel must understand and apply during the various phases of equipment operation and maintenance. Portions of this may be repeated elsewhere in this publication for emphasis.

WARNING

- Operating and maintenance personnel must at all times observe all safety regulations. Do not replace components or make adjustments inside the equipment with high voltage present. Under certain conditions, dangerous potentials may exist when a power control is in the off position, due to charges retained by capacitors. To avoid injuries, always remove power and discharge by grounding a circuit before touching it.
- Do not wear jewelry (rings, bracelets, metal watches, neck chains) while working on exposed equipment. Be very cautious about using tools near exposed terminals. Use properly insulated tools. Make test connections to terminals with insulated probe tips.
- Do not use soldering irons to remove heat shrinkable sleeving. Toxic fumes may result. Personnel injury could result.

CAUTION

- When using a heat gun to shrink electrical insulation sleeving, use low heat setting to avoid damage to adjacent components.
- Soldering shall be performed in accordance with T.O. 00-25-234, using ESDS approved soldering equipment. Failure to comply will jeopardize integrity of the ESDS assemblies.

3 HAZARDOUS MATERIALS.

This publication describes physical and chemical processes which may require the use of chemicals, solvents, paints, or other commercially available materials. The user of this publication should obtain the Material Safety Data Sheets (MSDSs) [Occupational Safety and Health Act (OSHA) Form 20 or equivalent] from the manufacturers or suppliers of materials to be used. The user must become completely familiar with the manufacturer/supplier information and adhere to the procedures, recommendations, warnings, and cautions of the manufacturer/supplier for the safe use, handling, storage, and disposal of these materials. SEE THIS LOOK HERE: HAZARDOUS MATERIALS (3)

WARNING

Before using any of the materials specified in this manual, be aware of all handling, storage, and disposal precautions recommended by the manufacturer or supplier. Failure to comply with manufacturer's or supplier's recommendations may result in personal injury or disease.

- Refer to the consumable materials list in chapter 1 for materials used during maintenance of this equipment. Warnings are provided in this manual to alert operating and maintenance personnel of potential hazards that could result in personal injury; they do not replace the manufacturer's recommendations.

4 HAZARDOUS MATERIALS WARNINGS.

Warnings for hazardous materials in this manual are designed to warn personnel of hazards associated with such items when they come in contact with them during actual use. Additional information related to hazardous materials is provided in AFOSHSTD 127-66, Air Force Occupational Safety and Health Manual and the DoD 6050.5, Hazardous Materials Information System (HMIS) series publications. For each hazardous material used, a MSDS is required to be provided and available for review by users. Consult your local safety and health staff concerning any questions on hazardous chemicals, MSDSs, personal protective equipment requirements, and appropriate handling and emergency procedures. Refer to the materials list in Chapter 1 for material used during maintenance of this equipment.

Column 1	Column 2
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
Checking entry attributes	and others.
This entry should span across the entire table.	

The following table provides an explanation of the warning symbols for hazardous materials used in this manual. To help the reader understand the potential hazards of the hazardous materials used in this manual, a detailed hazardous materials warnings list is provided. This list has an explanation of the hazards associated with each material used in the manual. The number in the index column of the list is the same number for the warning used in the procedures of this manual.

Table 1. Table to display appropriate Footnotes.

Row 1	The symbol of drops of a liquid onto a hand shows that the material will cause burns or irritation of human skin or tissue.*
Row 3	The symbol of a person wearing goggles shows that the material will injure your eyes.#,***,1
Row 4	The symbol of a flame shows that a material can ignite and burn you.
Row 5#,***,1	The symbol of a flame shows that a material can ignite and burn you.
Row 6	The symbol of a flame shows that a material can ignite and burn you.
Row 7	The symbol of a flame shows that a material can ignite and burn you.
Row 8	The symbol of a flame shows that a material can ignite and burn you.
Row 9	The symbol of a human figure in a cloud shows that vapors of a material present a danger to your life or health.2

* checking for proper placement of first table footnotes

\# checking for proper placement of second table first footnote and checking to ensure that the table footnote displays properly when the table footnote wraps to the second line with extra text

*** checking for proper placement of second table second footnote

1 checking for proper placement of second table third footnote

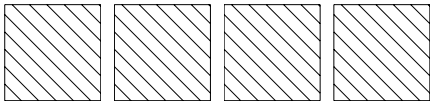
2 checking for proper placement of third footnote

Table 1. Table to display appropriate Footnotes—Continued.

Test data - first column	Test data - second column	Test data - third column
Test data - first column	Test data - second column	This particular entry should span vertically across three rows that follow and test the attribute morerows="# of rows you want to span".
Test data - first column	Test data - second column	
Test data - first column	Test data - second column	

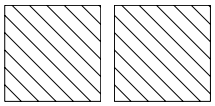
5 HAZARDOUS MATERIALS WARNINGS.

Introductino to hazardous materials paragraph and what follows is the warning tag with icons and seqnos.



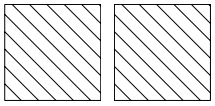
Iopropyl Alcohol 1

Isopropyl alcohol is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.



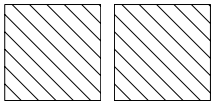
TWO PART EPOXY ADHESIVE 2

Two part epoxy adhesive is toxic to eyes and skin. Skin/eye protection required. Use in a well ventilated area.



SOLDER 3

Fumes generated by soldering are toxic to respiratory tract. Eye protection is required as solder may splatter. Use only in a well ventilated area.



CHEMICAL CONVERSION MATERIAL 4

Chemical conversion material, MIL-C-81706, contains acid and is toxic to eyes, skin, and respiratory tract. Eye protection is required. Use protective gloves, clothing, and approved respirator. Provide exhaust air ventilation.

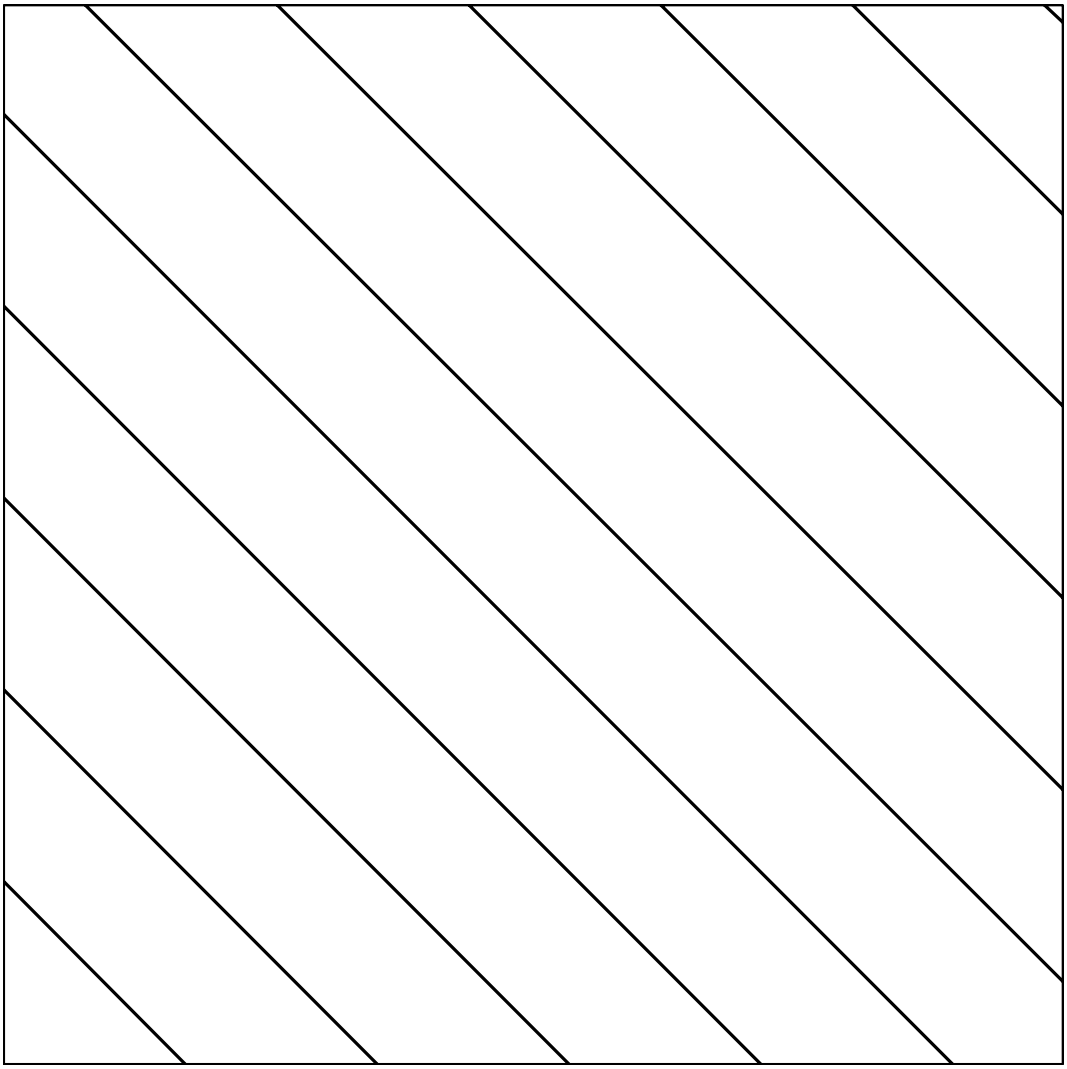


Figure 2. Test for figure.

CHAPTER 1

GENERAL INFORMATION

1.1 HCI TEST FOR A LOT OF %TEXT ELEMENTS.

Test for verbatim

test for verbatim Test for applicability

PURPOSE OF MANUAL (1)Test for applicability.

Test for data identity

Test for data identity

Test for Footnote Reference

Test for Modification request paraItem 1Item 2Test for Modification request para

1.1.1 FAULT CODES.

WARNING

Checking for warning following the title and correct fosi output of new content model

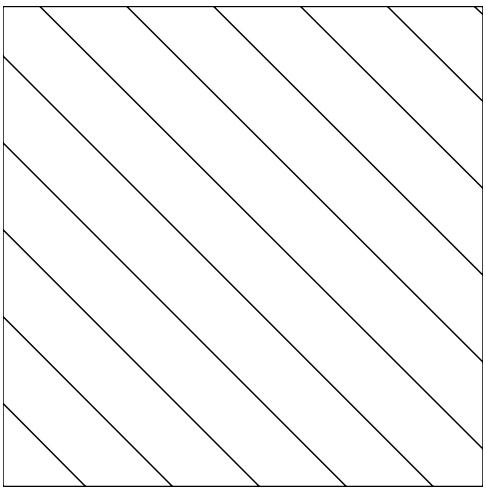
The FI manual is used by maintenance personnel to identify and correct malfunctions encountered by the flight crew or ground crews. TESTING FOR LRP TITLE: TO 1234, TO 2345. There are four ways to determine a fault for use with this manual: (1) The System/Subsystem/Subject Number (SSSN) Fault Isolation manual which will contain a Fault Identification and Description page for maintenance to assign a code for a given system fault. The Fault Identification and Description pages ask a series of questions that will lead maintenance personnel to a coded fault; (2) The SSSN with the Logbook Report contains a description of each of the coded faults that are covered within the FI manual; (3) The air crew uses the Fault Reporting manual, similar to the Logbook Report located within the FI manual; (4) A Job Guide (JG) referenced fault code. Once maintenance personnel have identified the coded fault they will proceed to the appropriate code within the System/Subsystem FI manual for fault/malfunction repair. hotlink. Reference to external entity. Reference to external element. Reference to entire subdocument. Second reference to external document.

Column 1	Column 2
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX
XXXXX	XXXXX

Figure 1-1. Test for figtable.

1.1.2 FAULT PROCEDURES.

Fault isolation procedures are provided for each specific malfunction. The procedures are made up of a series of actions which end with a corrective action. In order to be brief and concise, fault islolation procedures do not include detailed instructions necessary to gain access to components, to disconnect or connect electrical connectors, or to close panels/covers following troubleshooting. Always backtrack through the fault isolation diagram and remove any jumpers, reconnect plugs and hydraulic lines, and reinstall relays, access panels, and other removed components. The following is a test of inline graphics.



1.1.3 CORRECTIVE ACTION. The corrective action block makes references to Repair wiring and Isolate wiring.

NOTE

Checking for note in a step and for the correct placement of that note using the existing FOSI

a. PURPOSE OF MANUAL (1)When the corrective action block references to Repair wiring with a Wiring Diagram (WD) , the troubleshooting procedure has isolated the malfunction down to a faulty wire segment and the wiring will be repaired in accordance with the WD. The WD reference provided is to the [03 diagram which is the first block interconnect diagram of the system, it will be necessary for maintenance personnel to locate the appropriate wiring within the referenced section.

NOTE

Note after a step - checking for proper placement

b. PURPOSE OF MANUAL (1)When the corrective action block references to Isolate wiring with a Schematic Diagram (SD) , maintenance personnel will be required to further isolate the faulty wire down to a faulty segment with the refrenced SD. Then the WD will be used to repair the wiring segment. In the event the corrective action does not fix a problem, and there are no further corrective actions provided, the technician will refer to the appropriate SD for further troubleshooting. When a fault exists that is not identified by the FI/FR manual, the technician will refer to the appropriate SD's for further troubleshooting.

1.1.4 MANUAL LAYOUT. The following is a list of how the manual is broken down and what is contained in each of the sections within the FI manual:

a. PURPOSE OF MANUAL (1)The Front Matter contains an Alphabetical Index which provides a listing of all LRU's and their respective SSSN in the manual.

b. PURPOSE OF MANUAL (1)The pictorial and alphabetical Table of Contents for each chapter identifies the system/subsystem number. It also contains pertinent panel indications that the operator may use to aid in Fault Isolation.

c. PURPOSE OF MANUAL (1)The Fault Identification and Description page provides logical fault flow charting. It contains fault reporting information, circuit breaker information, fault location, effectivity information, and subsystem identification. Maintenance personnel will establish a coded fault from the symptoms and conditions involved in a fault. Once the coded fault has been established, either through the Fault Isolation manual or the Fault Reporting manual, maintenance personnel will need to locate the coded fault within the Fault Isolation section of the FI manual and follow the procedures for fault correction. Coded fault numbers will appear at the lower outer edge above the page number.

NOTE

When the Fault Identification and Decription page makes a reference to a coded fault that begins with FI it is referencing out to another system manual. It will be necessary for manitenance personnel to go to the referenced Fault Isolation manual to further identify the fault within the appropriate system. Also, when the reference contains XX it represents a place holder for a code that has yet to be determined within that manual.

d. PURPOSE OF MANUAL (1)The Log Book Report contains a complete word description of all coded faults found within the Fault Isolation manual. Maintenance personnel may fully identify and locate all fault isolation procedures for faults/malfunctions that are covered within this manual. The coded fault will provide corrective procedures to be performed by maintenance personnel.

(1) PURPOSE OF MANUAL (1)Test step paragraph

(2) PURPOSE OF MANUAL (1)Test step paragraph

(a) PURPOSE OF MANUAL (1)Test step paragraph

(b) PURPOSE OF MANUAL (1)Test step paragraph

1 PURPOSE OF MANUAL (1)Test step paragraph

2 PURPOSE OF MANUAL (1)Test step paragraph

e. PURPOSE OF MANUAL (1)Location of Parts provides an illustrated means for location, identification, and access data for components referenced within the manual.

f. PURPOSE OF MANUAL (1)Fault Isolation pages provide coded fault procedures for maintenance actions. These codes come from either the Fault Reporting manual, Job Guides (JG), or from two areas within the Fault Isolation manual; The Fault Identification and Description page or the Log Book Report. The Fault Isolation procedures will lead maintenance personnel to a corrective action for a given fault/malfunction.

g. PURPOSE OF MANUAL (1)Supplemental Data is in the form of tables, written text, and/or supporting illustrations to provide support to Fault Isolation procedures. The Supplemental Data section will be referenced to within the procedures.

1.1.5 MEMORY MONITOR. The purpose of the Memory Data Extraction Tool (MDET) is to produce fault isolation data as an aid in troubleshooting by aircraft maintenance personnel.

NOTE

Checking for proper format of warnings, cautions, and notes in subparagraphs.

1.1.5.1 The Memory Data Extraction Tool data tables are used directly with the Fault Isolation manuals. There are two distinct methods to access the Memory Data Extraction Tool data tables (Index and Variable). For additional information pertaining to the use of the Memory Data Extraction tool, refer to 1C-130(A)U-2-40GS-00-1.

1.1.5.2 When directed by the Fault Isolation manual to use Memory Monitor (MEM MON), it will be necessary to use 1C-130(A)U-2-40GS-00-1 to obtain the proper address code to be entered for the troubleshooting procedure. To search the source LRU, the Fault Isolation Table - Index Section should be used. The source line replaceable units are sorted alphanumerically. Once the desired source line replaceable unit is found within this, the message name must also be found which is also sorted alphanumerically. Once the message name is obtained, the menu to be utilized and start address is obtained by reading over to the right from the message name. The starting address is then added to the supplied offset, in hexadecimal, from the Fault Isolation manual. The offset is used so that the data is displayed on the *DGU MEM* or *MC MEM* menu in the top/left data field. TESTING FOR XREF TO STEP LEVEL 4. See 1.1.4 Step d(2).

1.1.5.3 The offset is obtained from the respective Fault Isolation manual and added to the message name start address. An example of this is adding 52B (offset) to 8048BBE0 (start address), which results in 8048C10B. This hexadecimal address value is then entered in the Display Generator Unit ADDR data field on the *DGU MEM* menu. The format utilized on the *DGU MEM* menu is obtained from the Fault Isolation manual. Once the format is known (in this case as BINARY) it is entered in the FORMAT data field on the *DGU MEM* menu. The entered start address (8048C10B) will then be displayed in the ADDR data field and the corresponding data is displayed in the top line of the BINARY data field. The displayed data is then checked against the expected results in the Fault Isolation manual to determine the next course of action.

1.1.5.4 The other method to access the Memory Data Extraction Tool data is when the Fault Isolation manual directs the operator to a functional group. When this happens the operator uses the Variable Section tables to determine the starting memory address. The Variable tables are subdivided into four different tables Acquisition, Control and Display, Process and Integration, and Fire Control . Once the desired table is found as indicated by the Fault Isolation manual, the variable name (sorted alphanumerically) is located to obtain the starting memory address. Once this is accomplished everything is the same as previously discussed. TEST FOR XREF TO STEP LEVEL 2: See 1.1.4 Step a.

1.2 OCP DESCRIPTION.

1.2.1 AC/DC Converter Description. The AC/DC converter is a part of the Electronic Support Measures System installed on the E-3A Aircraft. The AC/DC converter has a 115 vac input and provides an output of 28 vdc required by the ESMS. The AC/DC converter is shown in Figure 2.

1.2.2 AC/DC Converter Physical Description. See TIME COMPLIANCE TECHNICAL ORDERS (9). The AC/DC converter consists of capacitors, a transformer, coils, diodes, an over temperature switch, a temperature sensor, and an elapsed time meter. These components are mounted in a metal case. Table Table 2-1 lists the AC/DC converter shop replaceable units (SRUs). TEST FOR XREF - STEP LEVEL 1: See 1.1.4 Step a.

1.2.3 AC/DC Converter Functional Description. The AC/DC converter consists of a three phase transformer and rectifier circuit to convert the 115 volt 3-phase 400 Hz input power to the nominal 28 volt dc power required by the ESM system. The basic design of this unit uses a three-phase, 4-wire wye input. The dc output is produced by rectifying two secondaries in parallel. One secondary is wye-connected and the other is delta-connected. This connection results in the ac peaks of the two secondary windings being out-of phase which effectively doubles the output ripple frequency to 2400 Hz.

1.2.3.1 A temperature sensor is connected to the input power connector through an isolated shielded wire pair. The sensor is a solid state temperature sensor with nominal linear output of 1 A/K. Output is 298 A at 25C. A normally closed bi-metallic switch is provided to indicate AC/DC converter overtemperature, however this function is not used on E-3A aircraft.

1.2.3.2 An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.1 Test for Subpara3.

CAUTION

Checking for proper formatting of warnings, cautions and notes on subparagraphs when there is a title and a caution.

An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.1 IF THE INDEX=1 - THIS SHOULD BE GONE. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2 Test for Supbara4 Paragraph 2. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.1 TEST for subpara5 Number 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.2 OCP TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.2.1 TEST for subpara6 - 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.2.1.1 TEST for subpara7 - 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.2.1.2 TEST for subpara7 - 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.1.2.2.1.2.1 TEST for subpara8 - 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

WARNING

Test for warning with no title

1.2.3.2.2 An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.1 Test for Supbara4 Paragraph 1. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2 Test for subpara with title and no warnings.. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.1 TEST for subpara5. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2 TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.1 OCI TEST for subpara6 - No. 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.2 TEST for subpara6 - No. 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3 TEST for subpara6 - No. 3. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to

read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3.1 TEST for subpara7 - No. 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3.2 TEST for subpara7 - No. 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3.3 TEST for subpara7 - No. 3. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3.3.1 TEST for subpara8 - No. 1. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.2.3.2.2.2.2.3.3.2 TEST for subpara8 - No. 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3 LEADING PARTICULARS.

Table Table 1-1 lists the principal physical and electrical characteristics of the AC/DC converter.

1.3.1 . test for font

1.3.1.1 OCI Test this. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.1 Test for Subpara3.

CAUTION

Checking for proper formatting of warnings, cautions and notes on subparagraphs when there is a title and a caution.

An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.1 IF THE INDEX=1 - THIS SHOULD BE GONE. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2 Test for Supbara4 Paragraph 2. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2.1 TEST for subpara5. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2.2 TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2.2.1 TEST for subpara6. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2.2.1.1 TEST for subpara7. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.1.2.2.1.1.1 TEST for subpara8. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

WARNING

Test for warning with no title

1.3.1.1.2 An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.1 Test for Supbara4 Paragraph 1. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2 Test for subpara with title and no warnings.. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2.1 TEST for subpara5. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2.2 TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2.2.1 TEST for subpara6. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2.2.1.1 TEST for subpara7. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.3.1.1.2.2.2.1.1.1 TEST for subpara8. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

1.4 CONSUMABLE MATERIALS.

Table lists the consumable materials required during cleaning, repair, and assembly of the AC/DC converter.

Table 1-1. AC/DC Converter Shop Replaceable Units.

Nomenclature (this table is used to test row height by setting mindepth to 0.25in on all rows.	Reference Designator	Part Number
Meter Subassembly	M1	4000-11024-03
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

Table 1-2. AC/DC Converter Shop Replaceable Units.

Nomenclature	Reference Designator	Part Number
Meter Subassembly	M1	4000-11024-03
Meter Subassembly	M1	4000-11024-03

Table 1-2. AC/DC Converter Shop Replaceable Units—Continued.

Nomenclature	Reference Designator	Part Number
Meter Subassembly	M1	4000-11024-03
Testing for spanall and also - and two tgroups within a table		
Second Tgroup in a table		XXXXXXXXXX
123.456789	1.23456789	
123456.789	12345678.9	

Table 1-3. Leading Particulars for the AC/DC Converter.

Nomenclature	Remarks
Size	6.5in
Weight	10lbs
Load Current	**Deflist within a table** TERM — DEFINITION Max: — 200 a Min: — 2 a
Power	25amps

Nomenclature	Specification/Part No.	CAGE Code[1]
Adhesive, Epoxy, Two Part, Resin-Filled, General Purpose	4000-41212-01	32562
Alcohol, Isopropyl	TT-I-735	81348
Chemical Conversion Material	MIL-C-81706, Class 3	81348
Cloth, Cleaning, Nonwoven Fabric	CCC-C-46, Type I, Class 1	81348
Detergent, General Purpose, Liquid	MIL-D-16791, Type I	80244
Ink, Marking, Epoxy Base[2]	MIL-I-43553, Type I, Black	81349
Insulation Sleeving, Electrical		
	MIL-I-23053/5, Class 1, Size 02, Color 4 MIL-I-23053/5, Class 1, Size 04, Color 0	81349
Solder, Tin Alloy	QQ-S-571: SN63PB37WRMAP3	81348
Tape, Lacing and Tying	MIL-T-43435, Type I, Finish B, Size 4	81349
Wire, Electrical		
	• MIL-W-22759/16, Size 22, Color 90 • MIL-W-22759/16, Size 22, Color 92	81349

[1] checking for footnote in figtable

[2] checking for multiple footnotes in figtable

Figure 1-2. AC/DC Converter.

CHAPTER 2

SPECIAL TOOLS AND TEST EQUIPMENT

2.1 GENERAL.

This chapter lists all special tools and test equipment required for maintaining the AC/DC converter. XREF TEST TO PARA0 TO TEST FOR HIERARCHIAL LEVEL CODE IMPLEMENTED BY PAUL DAVIS: See WARNING AND CAUTION STATEMENTS (1) for more information.

Table 2-1. Table to display warnings, cautions and notes.

Row 1	The symbol of drops of a liquid onto a hand shows that the material will cause burns or irritation of human skin or tissue.

WARNING

Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table

Row 2	The symbol of drops of a liquid onto a hand shows that the material will cause burns or irritation of human skin or tissue.
Row 3	The symbol of a person wearing goggles shows that the material will injure your eyes.
Row 4	The symbol of a flame shows that a material can ignite and burn you.

CAUTION

Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a tableTest for caution in a table

Row 5	The symbol of a flame shows that a material can ignite and burn you.
Row 6	The symbol of a flame shows that a material can ignite and burn you.
Row 7	The symbol of a flame shows that a material can ignite and burn you.
Row 8	The symbol of a flame shows that a material can ignite and burn you.

NOTE

Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a table Test for warning within a tableLast test

Row 9	The symbol of a human figure in a cloud shows that vapors of a material present a danger to your life or health.

2.2 SPECIAL TOOLS AND TEST EQUIPMENT.

None

2.3 LOCAL MANUFACTURE ITEMS.

None See PURPOSE OF MANUAL (1).

2.4 REFERENCE TEST FOR APPLICABILITY.

Test data test data test data test data test data test data. See Term1 . Adding information to this paragraph in order to produce more text on the page. Looking to format the page correctly with a sparse amount of data surrounded by a rather large and complicated table. Ensuring that it formats correctly and sufficiently to produce the desired results. This instance will be used for further evaluation of 38784STD-B.

CHAPTER 3

DISASSEMBLY

3.1 GENERAL.

WARNING

Do not use soldering iron to remove heat shrinkable sleeving. Toxic fumes may result. Personnel injury could result.

HCP This chapter provides disassembly procedures for the AC/DC converter. Disassembly procedures vary with the type of work to be performed and should only be done to the extent necessary. The figure supporting the disassembly have callout numbers that are defined in the legend on the figure. During disassembly all mounting hardware should be retained. Soldering/desoldering shall be performed in accordance with T.O. 00-25-234.

3.2 XREF TEST.

CHAPTER 1

3.3 SECOND APPLICABIL TEST.

Upcoming applicability reference. See **Term2**

3.4 XREF TEST.

GENERAL PRECAUTIONS (2)

3.5 XREF TEST.

PURPOSE OF MANUAL (1)

3.6 NSP XREF TEST.

TIME COMPLIANCE TECHNICAL ORDERS (9)

3.7 REMOVAL FROM SHIPPING CONTAINER.

HCI Upon receipt, the power supply may be in a shipping container. Remove from the shipping container per T.O. 00-25-234.

3.8 METER SUBASSEMBLY REMOVAL.

WARNING

- Ensure power to AC/DC converter is removed before performing maintenance; otherwise, injury to personnel or damage to equipment could occur.
- A recently powered AC/DC converter may be extremely hot. Allow unit to cool or use extreme caution when working around unit to minimize a potential burn hazard.

a. PURPOSE OF MANUAL (1)Remove three self-locking nuts (11, figure Figure 1-2) and remove front cover (10) from converter.

b. PURPOSE OF MANUAL (1)Cut tape securing wires from meter (6) to wires from capacitor C8 (2).

c. OCP PURPOSE OF MANUAL (1)Remove two nuts (5) and flat washers (4) and remove meter wires from positive and negative posts (3) of converter. If necessary remove capacitor wires first.

d. OCI PURPOSE OF MANUAL (1)Remove two nuts (13), two lock washers (14), and four flat washers (15), and remove bracket (12) from mounting studs on converter.

e. HCI PURPOSE OF MANUAL (1)Remove two screws (9), flat washers (7), and lock washers (8), and remove meter from bracket (12).

3.9 PARAGRAPH PRECEEDING FIGURE.

Paragraph preceeding figure to test for placement of legend

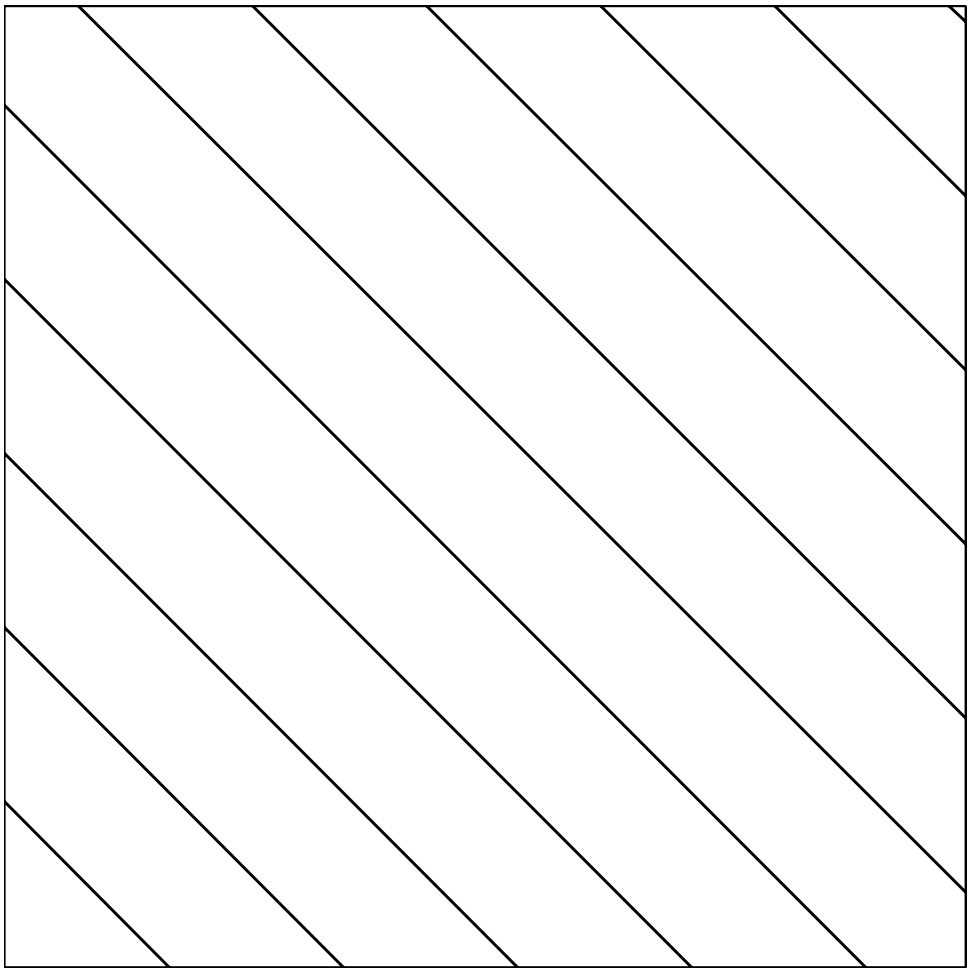
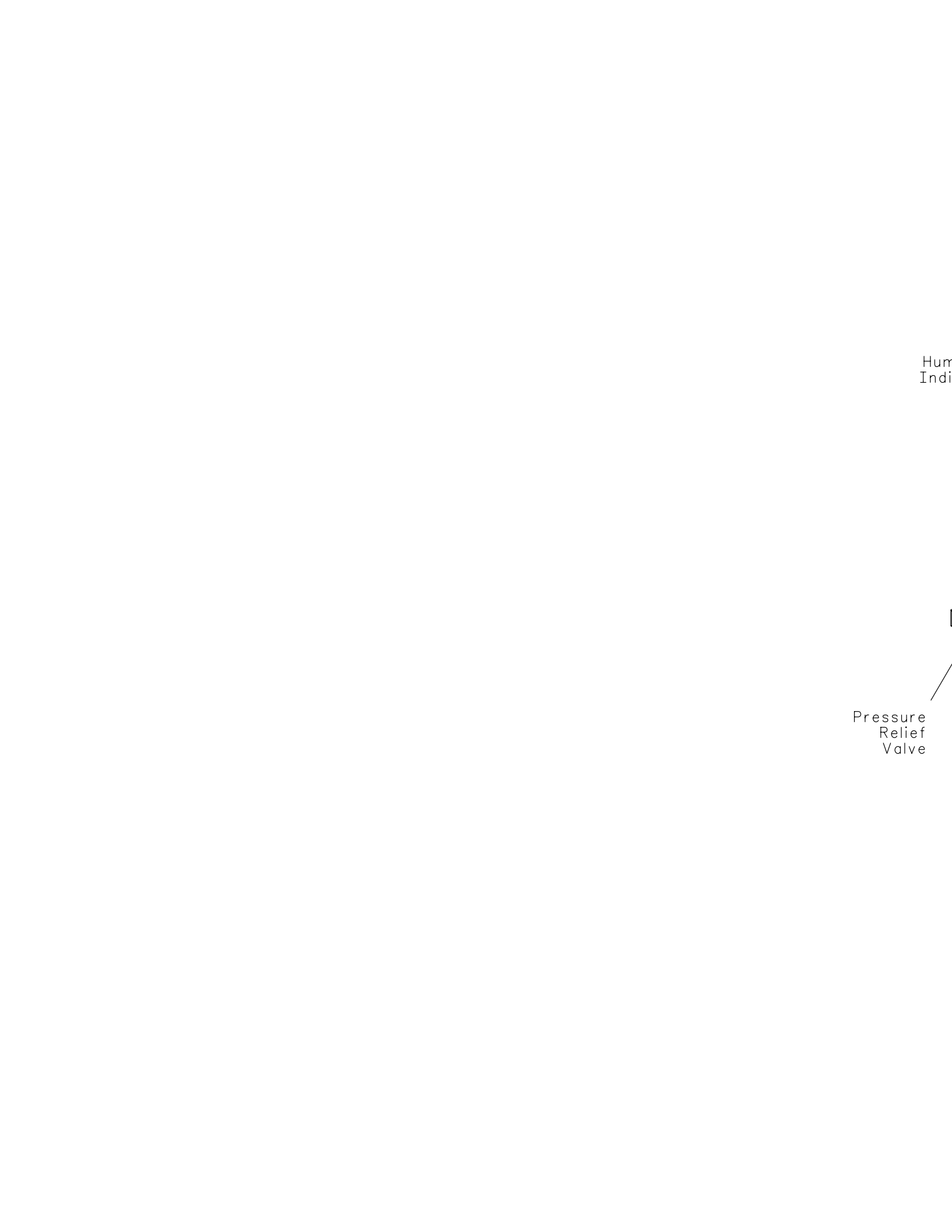


Figure 3-1. PURPOSE OF MANUAL (1)Meter M1 Removal/Installation.


Hum
Indi
Pressure
Relief
Valve

CHAPTER 4

CLEANING

4.1 GENERAL.

OCI This chapter provides cleaning instruction for the AC/DC converter. Ensure that needed cleaning, as determined by a visual inspection, is performed prior to assembly and application of power for testing.

A. Item Number 1
B. Item Number 2
C. Item Number 3
D. Item Number 4
E. Item Number 5
F. Item Number 6
G. Item Number 7
H. Item Number 8
I. Item Number 9
J. Item Number 10

4.2 TEST.

test for intervening paragraphs on a seqlist with title. With additional test data for testing for proper spacing before and after title when there is a large paragraph proceeding.

Test for aligning periods

a. Item Number 1
b. Item Number 2
c. Item Number 3
d. Item Number 4
e. Item Number 5
f. Item Number 6
g. Item Number 7
h. Item Number 8
i. Item Number 9
j. Item Number 10

1. Item Number 1
2. Item Number 2
3. Item Number 3
4. Item Number 4
5. Item Number 5
6. Item Number 6
7. Item Number 7
8. Item Number 8
9. Item Number 9
10. Item Number 10

Test for aligning periods and intervening title

i. Item Number 1
ii. Item Number 2
iii. Item Number 3
iv. Item Number 4
v. Item Number 5
vi. Item Number 6
vii. Item Number 7
viii. Item Number 8
ix. Item Number 9
x. Item Number 10

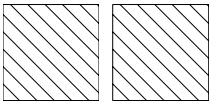
4.3 TEST.

test for intervening paragraphs on a seqlist without title.

I. Item Number 1
II. Item Number 2
III. Item Number 3
IV. Item Number 4
V. Item Number 5
VI. Item Number 6
VII. Item Number 7
VIII. Item Number 8
IX. Item Number 9
X. Item Number 10

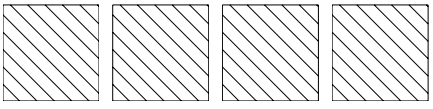
4.4 CLEANING PROCEDURES.

OCP Cleaning materials for the power supply are listed in Consumable Materials list.



LIQUID DETERGENT 3

a. FCP PURPOSE OF MANUAL (1)OCI Clean the exterior as required, using lint-free cloth, mild detergent and water solution. Clean interior components as prescribed in T.O. 00-25-234.



ISOPROPYL ALCOHOL 1

b. NSP PURPOSE OF MANUAL (1)OCP After soldering, clean all joints with isopropyl alcohol, TT-I-735, to remove all traces of resin and other foreign matter.

CHAPTER 5

INSPECTION, REPAIR, AND REPLACEMENT

5.1 GENERAL.

FCP This chapter provides inspection, repair, and replacement procedures for the AC/DC converter.

5.2 INSPECTION.

NSP This is at test paragraph to test for spacing of symbols.

5.2.1 NSP General. Inspection should be performed in conjunction with overhaul activities, or when a component is removed or replaced. Discrepancies encountered during an inspection shall be repaired and/or cleaned in accordance with applicable procedures in this manual.

5.2.2 Overall Visual Inspection. FCP Visually inspect the power supply for the following:

a. PURPOSE OF MANUAL (1)Inspect for contamination by dust, dirt, or other foreign matter.

b. PURPOSE OF MANUAL (1)Inspect for fungus growth and corrosion on metal surfaces including connector pins.

c. PURPOSE OF MANUAL (1)Inspect identification plate, information plate, and caution marker for damage.

d. PURPOSE OF MANUAL (1)Inspect converter case for scratches, dents, distortion, or other obvious signs of wear or damage.

e. PURPOSE OF MANUAL (1)Inspect connector for contacts that are missing, bent, broken or out of alignment or for damaged insulation.

f. PURPOSE OF MANUAL (1)Inspect for evidence of overheating or other damage.

5.2.2.1 An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.1 Test for Subpara3.

CAUTION

Checking for proper formatting of warnings, cautions and notes on subparagraphs when there is a title and a caution.

An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.1 IF THE INDEX=1 - THIS SHOULD BE GONE. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2 Test for Supbara4 Paragraph 2. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2.1 TEST for subpara5. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2.2 TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2.2.1 TEST for subpara6. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2.2.1.1 TEST for subpara7. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.1.2.2.1.1.1 FCP TEST for subpara8. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

WARNING

Test for warning with no title

5.2.2.1.2 An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.1 Test for Supbara4 Paragraph 1. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.2 Test for subpara with title and no warnings.. An elapsed time meter is mounted integral to the converter and connected to the dc output. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.2.1 TEST for subpara5. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.2.2 TEST for subpara5 Number 2. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

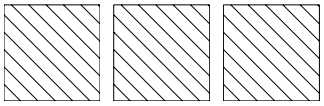
5.2.2.1.2.2.2.1 TEST for subpara6. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.2.2.1.1 TEST for subpara7. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.2.2.1.2.2.2.1.1.1 TEST for subpara8. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter. The front cover of the converter must be removed to read the meter.

5.3 REPAIR AND REPLACEMENT.

5.3.1 General. Repair consists of wiring repair, corrosion removal and replacement of damaged or faulty components. Refer to T.O. 12S2-2AYR2-134 for Illustrated Parts Breakdown (IPB).

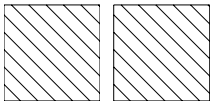


TWO PART EPOXY ADHESIVE 2

a. PURPOSE OF MANUAL (1)Information plate is secured to converter case using two-part epoxy adhesive.

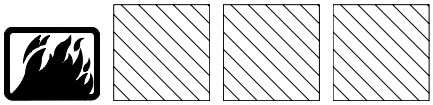
b. PURPOSE OF MANUAL (1)Repair minor dents in accordance with T.O. 00-25-234.

c. PURPOSE OF MANUAL (1)Repair cover finish using chemical conversion coating MIL-F-14072, E512 in accordance with T.O. 1-1-8. Repair of converter finish shall conform to FED-STD-595, color 37038 (black).



SOLDER 4

d. PURPOSE OF MANUAL (1)Soldering shall be in accordance with T.O. 00-25-234.



ISOPROPYL ALCOHOL 1

e. PURPOSE OF MANUAL (1)Clean solder joints with isopropyl alcohol, TT-I-735, to remove all traces of resin and other foreign matter.

5.3.2 FCP Electrical Component Replacement. Electrical component replacement shall be in accordance with T.O. 00-25-234.

5.3.3 Connector Repair. Repair or replace connector as required in accordance with T.O. 00-25-234.

5.3.4 Wire Repair. Repair meter wiring in accordance with T.O. 00-25-234 and T.O. 1-1A-14.

WARNING

Do not use soldering iron to remove heat shrinkable sleeving. Toxic fumes may result. Personnel injury could result.

CAUTION

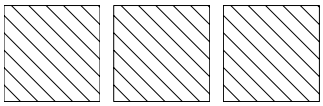
When using heat gun to shrink electrical insulation sleeving, use a low heat setting to avoid damage to adjacent components.

a. PURPOSE OF MANUAL (1)Replace terminal lugs and sleeving as necessary.

b. PURPOSE OF MANUAL (1)After repair, bind wires together as necessary using lacing and tying tape.

5.3.5 Marking Repair. Replace damaged markings using MIL-I-43553-I, Black marking ink in accordance with MIL-STD-130.

5.3.6 Corrosion Prevention. Remove corrosion in accordance with T.O. 1-1-689.



CHEMICAL CONVERSION MATERIAL 5

a. PURPOSE OF MANUAL (1)Repair bare metal on cover using chemical conversion material MIL-C-81706, Class 3 in accordance with T.O. 1-1-8.

b. PURPOSE OF MANUAL (1)Repair of converter finish shall conform to FED-STD-595, color 37038 (black).

CHAPTER 6

ASSEMBLY

SECTION I ASSEMBLY PART 1

6.1 GENERAL.

This chapter contains information necessary to assemble the AC/DC converter. After assembly the AC/DC converter should be checked by testing procedures in chapter CHAPTER 7. Soldering shall be performed in accordance with T.O. 00-25-234.

6.2 ASSEMBLY.

6.2.1 Meter Subassembly Installation. Introduction paragraph for this particular series of steps. This will reference the following - (Figure Figure 1-1)

a. PURPOSE OF MANUAL (1)Position meter (6) on bracket (12) and secure with two screws (9), flat washers (7) and lock washers (8).

b. PURPOSE OF MANUAL (1)Place meter bracket on converter mounting studs and secure with four flat washers (15), two lock washers (14), and two nuts (13).

c. PURPOSE OF MANUAL (1)Install meter wires onto posts (3) observing polarity of wires and posts. Ensure capacitor C8 (2) wires are installed on posts.

d. PURPOSE OF MANUAL (1)Install two flat washers (4) and nuts (5) to posts.

e. PURPOSE OF MANUAL (1)Using lacing and tying tape, secure meter and capacitor wires.

f. PURPOSE OF MANUAL (1)Position converter front cover (10) and install three self-locking nuts (11) to secure cover to converter (1).

6.2.2 Functional Test. Perform AC/DC converter checkout procedures per T.O. 8C14-6-6-33.

SECTION II ASSEMBLY PART 2

6.3 ASSEMBLY.

6.3.1 Meter Subassembly Installation. Introduction paragraph for this particular series of steps. This will reference the following - (Figure Figure 7-1)

a. PURPOSE OF MANUAL (1)Position meter (6) on bracket (12) and secure with two screws (9), flat washers (7) and lock washers (8).

b. PURPOSE OF MANUAL (1)Place meter bracket on converter mounting studs and secure with four flat washers (15), two lock washers (14), and two nuts (13).

c. PURPOSE OF MANUAL (1)Install meter wires onto posts (3) observing polarity of wires and posts. Ensure capacitor C8 (2) wires are installed on posts.

d. PURPOSE OF MANUAL (1)Install two flat washers (4) and nuts (5) to posts.

e. PURPOSE OF MANUAL (1)Using lacing and tying tape, secure meter and capacitor wires.

f. PURPOSE OF MANUAL (1)Position converter front cover (10) and install three self-locking nuts (11) to secure cover to converter (1).

6.3.2 FCP Functional Test. Perform AC/DC converter checkout procedures per T.O. 8C14-6-6-33.

6.4 GENERAL.

This chapter contains information necessary to assemble the AC/DC converter. After assembly the AC/DC converter should be checked by testing procedures in chapter CHAPTER 7. Soldering shall be performed in accordance with T.O. 00-25-234.

6.5 ASSEMBLY.

6.5.1 Meter Subassembly Installation. Introduction paragraph for this particular series of steps. This will reference the following - (Figure Figure 3-1)

a. PURPOSE OF MANUAL (1)Position meter (6) on bracket (12) and secure with two screws (9), flat washers (7) and lock washers (8).

b. PURPOSE OF MANUAL (1)Place meter bracket on converter mounting studs and secure with four flat washers (15), two lock washers (14), and two nuts (13).

c. PURPOSE OF MANUAL (1)Install meter wires onto posts (3) observing polarity of wires and posts. Ensure capacitor C8 (2) wires are installed on posts.

d. PURPOSE OF MANUAL (1)Install two flat washers (4) and nuts (5) to posts.

e. PURPOSE OF MANUAL (1)Using lacing and tying tape, secure meter and capacitor wires.

f. PURPOSE OF MANUAL (1)Position converter front cover (10) and install three self-locking nuts (11) to secure cover to converter (1).

6.5.2 Functional Test. Perform AC/DC converter checkout procedures per T.O. 8C14-6-6-33.

CHAPTER 7

TESTING

7.1 GENERAL.

7.1.1 Testing. All checkout and troubleshooting procedures for the power supply are contained in T.O. 8C14-6-6-33.

7.1.2 Circuit Diagrams. The schematic diagram of the AC/DC converter is provided in figure Figure 3-1.

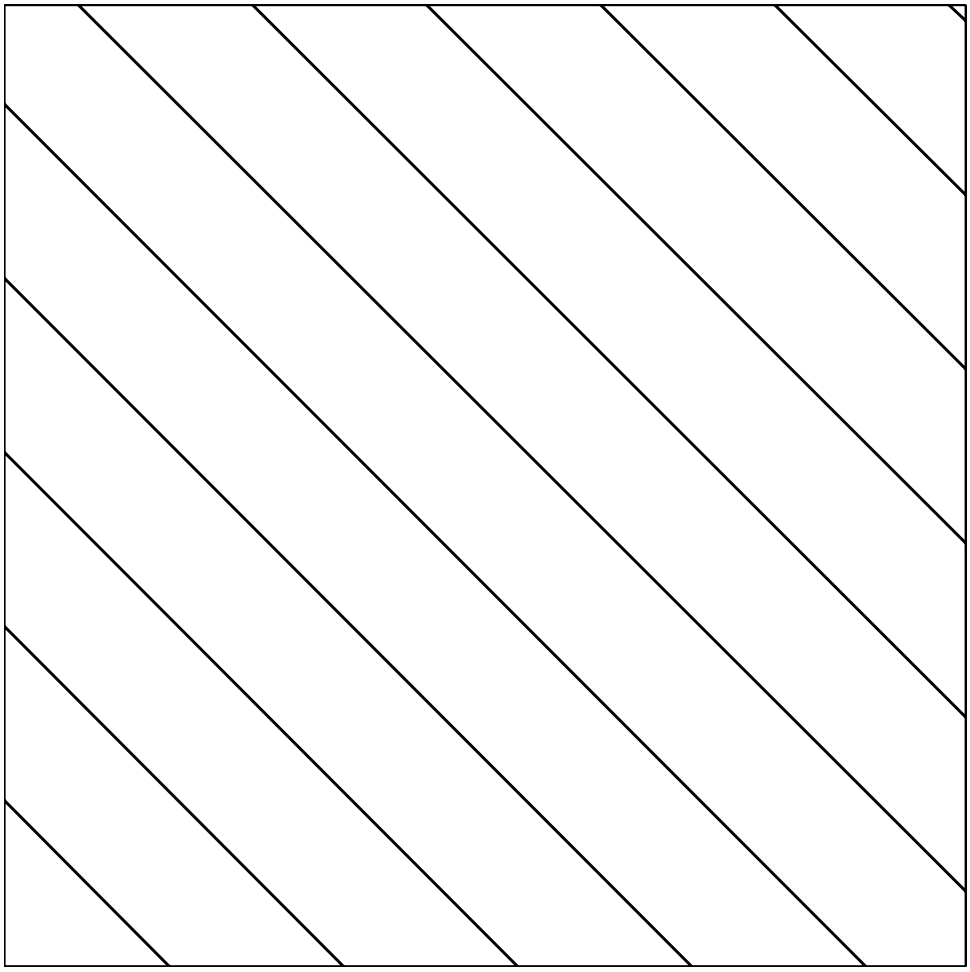


Figure 7-1. PURPOSE OF MANUAL (1)WO REPROWID AND REPRODEP AC/DC Converter Schematic Diagram.

7.2 GENERAL.

Sample test data for primary paragraph.

7.2.1 Testing. All checkout and troubleshooting procedures for the power supply are contained in T.O. 8C14-6-6-33.Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary pagagraph. Sample test data for primary

pagagraph. Sample test data for primary pagagraph.

7.2.2 Circuit Diagrams. The schematic diagram of the AC/DC converter is provided in figure Figure 3-1.Sample test data for primary pagagraph. Sample test data for primary pagagraph.

7.3 HCP GENERAL.

CAUTION

- testing for keeps on primary paragraph
- testing for keeps on primary paragraph

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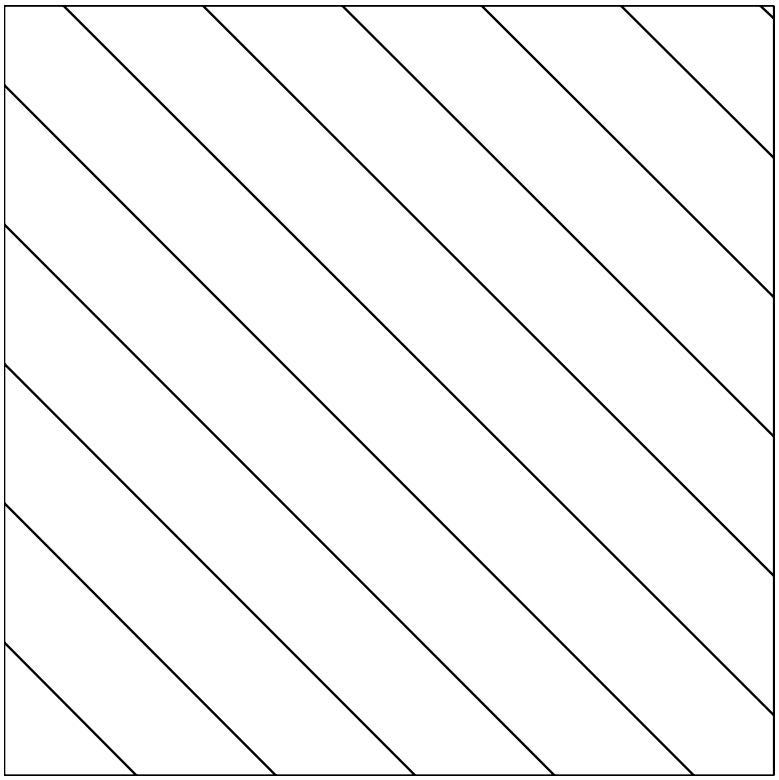
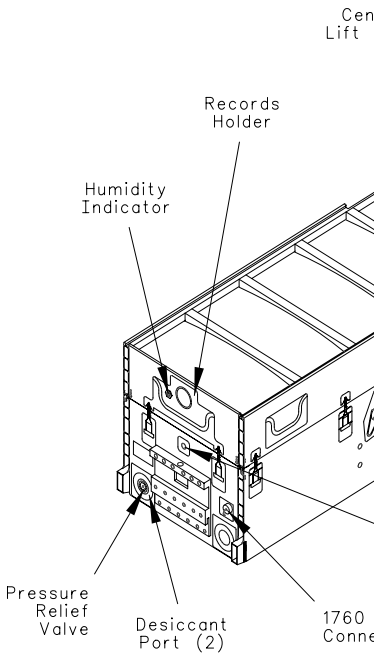
7.3.1 Testing. All checkout and troubleshooting procedures for the power supply are contained in T.O. 8C14-6-6-33.

7.3.2 Circuit Diagrams. The schematic diagram of the AC/DC converter is provided in figure Figure 3-1.



Column 1	Column 2
Black	Good
Red	Bad
Blue	Depressed

Figure 7-2. AC/DC Converter Schematic Diagram.


Cen
Lift
Records
Holder
Humidity
Indicator
Pressure
Relief
Valve
Desiccant
Port (2)
1760
Conne

CHAPTER 8

ILLUSTRATED PARTS BREAKDOWN

SECTION I FOREWORD

8.1 INTRODUCTION.

This Illustrated Parts Breakdown (IPB) describes the parts that make up the Control and Computation Subsystem (CCS). CCS assemblies and equipment that were designed specifically for this contract are broken down in detail in this chapter. Commercial Off The Shelf (COTS) equipment which is used in the CCS is shown at the assembly level in this chapter. Refer to the respective vendor manual for the details on the COTS equipment. Figure 7-1 shows how to use the IPB if a part number or reference designator is known.

8.2 PARTS LIST.

The parts list are divided into figures by main equipment groups and/or assemblies. Each group or assembly is keyed to a related illustration by figure and index number. They are then broken down into assemblies, modules and detailed parts. The relation of each part to its next higher assembly and/or group is shown either by indentation or by figure cross-reference notes. The parts list is divided into seven columns as described below:

a. PURPOSE OF MANUAL (1)Figure and Index Number. The figure and index number is used to correlate the parts list with the applicable illustrated item. Each sheet of multi-sheet illustrations is numbered separately beginning with the number 1.

b. PURPOSE OF MANUAL (1)Part Number. The part number can be one of several types; specification control number, vendor part number, and commercial part number.

c. PURPOSE OF MANUAL (1)Commercial and Government Entity (CAGE) Code . The CAGE code for each part number is listed in this column. These codes are in accordance with the CAGE cataloging handbook H4/H8 and amendments thereto.

d. PURPOSE OF MANUAL (1)Description. The description column contains indenture, nomenclature and cross-reference information.

e. PURPOSE OF MANUAL (1)Units Per Assembly. This column indicates the number of units for one next higher assembly. REF designates those items which are listed for reference purposes only.

f. PURPOSE OF MANUAL (1)Useable On Code. This column is used to indicate the parts usage. The absence of a code indicates that the part is useable on all of its next higher assemblies.

g. PURPOSE OF MANUAL (1)Source, Maintenance and Recoverability (SMR) Code. This column contains Joint Military Services Uniform SMR codes as defined in TO 00-25-195

8.2.1 Subpara for Illustrated Parts Breakdown. This paragraph is a test for the placement of security markings and for the test of primary subpara in a content specific IPB paragraph.

8.2.2 Subpara for Illustrated Parts Breakdown. This paragraph is a test for the placement of security markings and for the test of primary subpara in a content specific IPB paragraph.

8.3 NUMERICAL INDEX.

The Numerical Index follows the parts lists and contains an alphanumerical listing of all drawings and parts that are listed in the parts list of this IPB.

8.4 REFERENCE DESIGNATION INDEX.

The Reference Designation Index follows the Numerical Index and contains a listing of the reference designations that are assigned to the parts list of this IPB.

8.5 MODELS COVERED.

This IPB covers the AN/GSQ-T97 CCS for the GRMDS.

8.6 SERIALIZATION.

Test paragraph for a serialization paragraph followed by a serialization table.

Table 8-1. Serialization

Nomenclature	Model No.	Serial No.
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX

8.7 USABLE ON CODES.

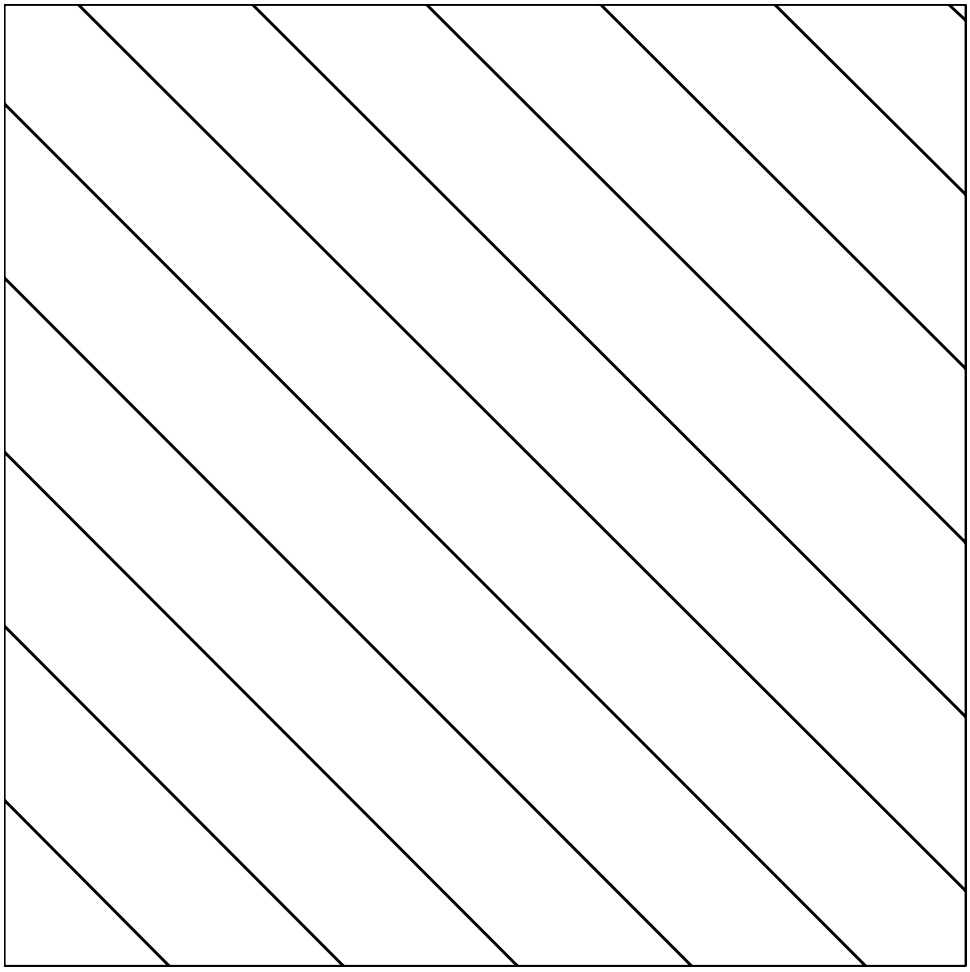
As described above, this column is used to indicate the parts usage. The absence of a code indicates that the part is useable on all of its next higher assemblies.

8.8 SOURCE, MAINTENANCE, AND RECOVERABILITY (SMR) CODES COLUMN.

As described above, this column contains Joint Military Services Uniform SMR codes as defined in TO 00-25-195.

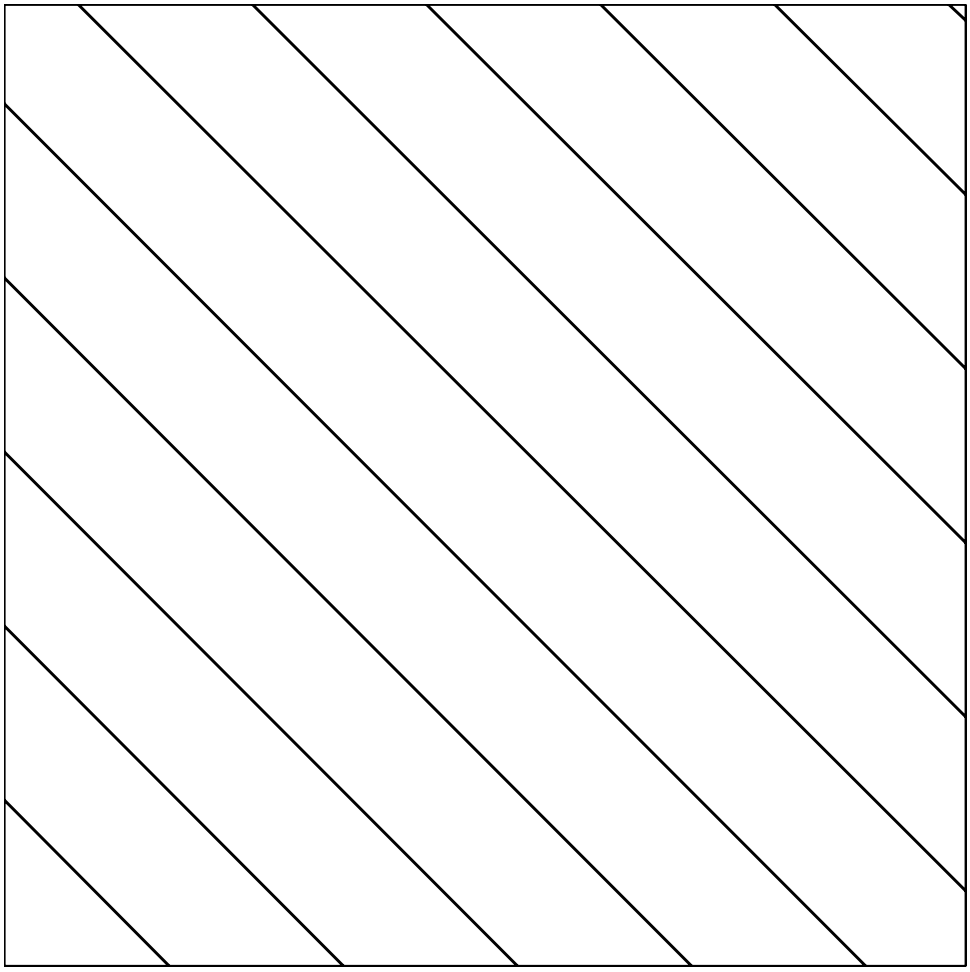
8.9 PARTS STANDARDIZATION.

Authority for use of a part number different than the part number listed in this IPB is established by the Department of Defense (DoD) Interchangeability and Substitution (I & S) program. Refer to the DO43B Master Item Identification Base for Air Force I & S information. The maintenance technician has final responsibility and authority for determining acceptability of substitute parts.



Column 1	Column 2	Column 3
Black	Good	blank
Red	Bad	blank
Blue	Depressed	blank

Figure 8-1. PURPOSE OF MANUAL (1)How to Locate Parts. (Sheet 1 of 2)



Column 1	Column 2	Column 3
Black	Good	blank
Red	Bad	blank
Blue	Depressed	blank

Figure 8-1. PURPOSE OF MANUAL (1)How to Locate Parts. (Sheet 2)

SECTION II MAINTENANCE PARTS LIST

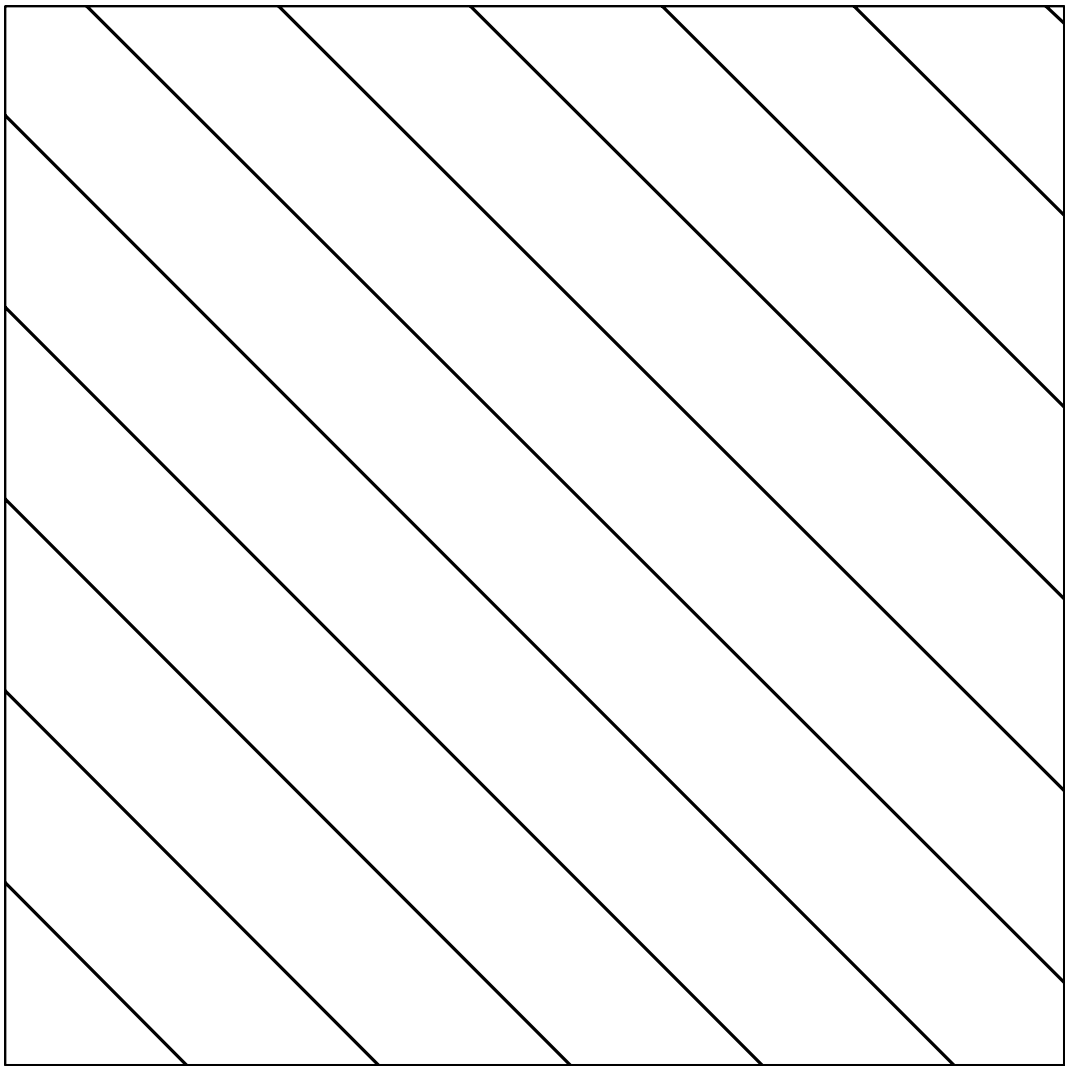


Figure 8-2. PURPOSE OF MANUAL (1)Control and Computation Subsystem Group, Building 470.

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
8 2	9522229-101	98747	CONTROL AND COMPUTATION SUB-SYSTEM GROUP, MAIN SITE - BUILDING 470	REF		XB
1	9522233-101 *	98747	. CCS CONSOLE ASSY ..... (See Figure 8-2 for Details)	1		XB
2	9522234-101	98747	. SOC CONSOLE ASSY UNIT 18 test ..... (See Figure 8-3 for Details	1		XB
3	SW250A	59951	. SWITCH, 2 Position UNIT 19 test 19 ..... (VID 9522332-001)	1		PAODDT
4	LQ-2550	61722	. PRINTER, Automatic Data UNIT 66 test 66 ..... (VID 9522335-001)	1		XB

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
5	GPSTATION	38757	. RECEIVER - GPS UNIT 68 Processing test 68 ..... (VID 9522191-001)	1		PAODDT
6	MODEL 501	38757	. ANTENNA - GPS UNIT 21 test 68 ..... (VID 9522227-001)	1		PAODDT
7	9522290-101	98747	. CABLE ASSEMBLY - (W13) UNIT 22 test 68	1		AFF
	GPS-C030	38757	. . CABLE ASSY, Radio Frequency UNIT 22 test 68 ..... (VID 9522230-001)	1		PAOZZN
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
8	9522298-101	98747	. CABLE ASSEMBLY - (W2) UNIT 22 test 68	1		AFF
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
	BC00103	59951	. . CABLE ASSEMBLY UNIT 22 test 68 ..... (VID 9522452-001)	1		PAOZZN
9	9522300-101	98747	. CABLE ASSEMBLY - (W3) UNIT 22 test 68	1		AFF
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
	EYN600-000	59951	. . CABLE ASSEMBLY UNIT 22 test 68 ..... (VID 9522452-001)	1		PAOZZN
10	9522300-102	98747	. CABLE ASSEMBLY - (W4) UNIT 22 test 68	1		AFF
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
	EYN600-0020-MM	59951	. . CABLE ASSEMBLY UNIT 22 test 68 ..... (VID 9522452-001)	1		PAOZZN
11	9522296-101	98747	. CABLE ASSEMBLY - (W5) UNIT 22 test 68	1		AFF
12	9522296-102	98747	. CABLE ASSEMBLY - (W7) UNIT 22 test 68	1		AFF
13	9522296-103	98747	. CABLE ASSEMBLY - (W6) UNIT 22 test 68	1		AFF
14	9522296-104	98747	. CABLE ASSEMBLY - (W14) UNIT 22 test 68	1		AFF
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
	EDN12H	59951	. . CABLE ASSEMBLY UNIT 22 test 68 ..... (VID 9522316-001)	1		PAOZZN
15	9522297-101	98747	. CABLE ASSEMBLY - (W8) UNIT 22 test 68	1		AFF
16	9522297-102	98747	. CABLE ASSEMBLY - (W9) UNIT 22 test 68	1		AFF
	TTW2.5F	67041	. . MARKER UNIT 22 test 68 ..... (VID 9522452-001)	2		PAOZZN
	EBN25C-0025-MM	59951	. . CABLE ASSEMBLY UNIT 22 test 68 ..... (VID 9522452-001)	1		PAOZZN
17	9522353-102	98747	. CABLE ASSEMBLY - (W11) UNIT 22 test 68	1		AFF
	M39012/12-0101	81349	. . CONNECTOR (P1,P2) UNIT 22 test 68	2		PAOZZN
	MS3368-1-9B	96906	. . STRAP, TIEDOWN (Marker) UNIT 22 test 68	6		PAOZZN
18	9522350-101	98747	. CABLE ASSEMBLY - (W12) UNIT 22 test 68	1		AFF
	M39012/17-0101	81349	. . CONNECTOR (P1) UNIT 22 test 68	1		PAOZZN
	MS24308/4-7	96906	. . CONNECTOR (P2) UNIT 22 test 68	1		PAOZZN
XX9XX	9522431-001	98747	. . BACKSHELL UNIT 22 test 68	1		PAOZZN
	9522431-001	98747	. . FERRULE, SPLIT-RING UNIT 22 test 68	1		PAOZZN
	MS3368-1-9B	96906	. . STRAP, TIEDOWN (Marker) UNIT 22 test 68	2		PAOZZN
XX10XX 19	UDC83020C25RT03	55455	. POWER SUPPLY UNIT 22 test 68 ..... (VID 9522452-001)	1		XB
20	UBCB0140H25YJ	55455	. RACK, BATTERY UNIT 3 test 68 ..... (VID 9522437-001)	1		XB
21	U125D1S25A1	55455	. CIRCUIT BREAKER BOX UNIT 3 test 68 ..... (VID 9522438-001)	1		XB
21	U125D1S25A1	55455	. CIRCUIT BREAKER BOX UNIT 3 test 68	1		XB

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
			(VID 9522438-001)			

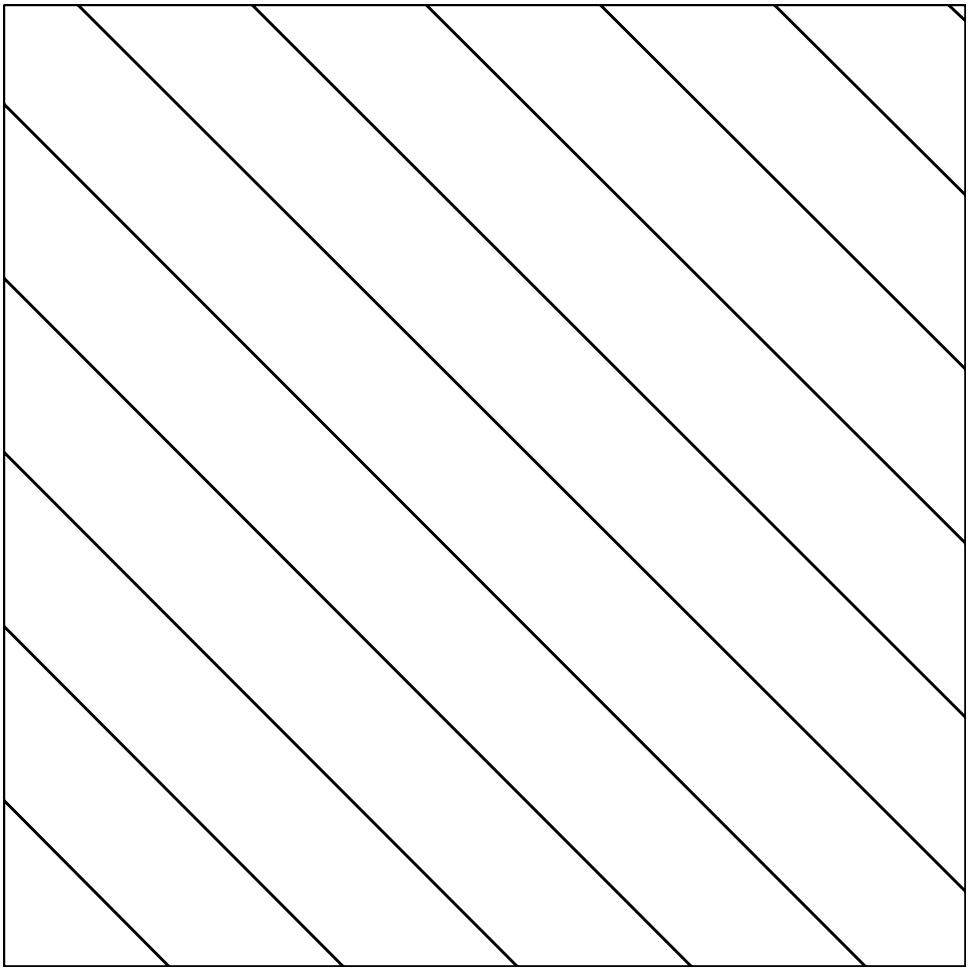


Figure 8-3. PURPOSE OF MANUAL (1)CCS Console Assembly Unit 18.

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
8 3	9522233-101	98747	WORKSTATION ASSY - CCS, UNIT 18 UNIT 3 test 68 ..... (See Figure 8-2 for NHA)	REF		XB
1	9522445-101	98747	. CONSOLE ASSY - SERVER, (A1) UNIT 3 test 68	1		PAODDT
	D-48604-S3	12345	. . COMPUTER, DIGITAL - SERVER UNIT 3 test 68 ..... (VID 9522327-001)	1		PAODDT
2	9522304-101	98747	. . TIME AND FREQUENCY PROCESSOR ASSY (A2) UNIT 3 test 68 ..... (See Figure 8-5 for Details)	1		PAODDT
3	9522279-101	98747	. . SERIAL COMMUNICATION PROCESSOR ASSY (A3) UNIT 3 test 68 ..... (See Figure 8-6 for Details)	1		PAODDT
4	P-TER2	67881	. TERMINAL, Data Processing (A2) UNIT 3 test 68 ..... (VID 9522328-001)	1		XB

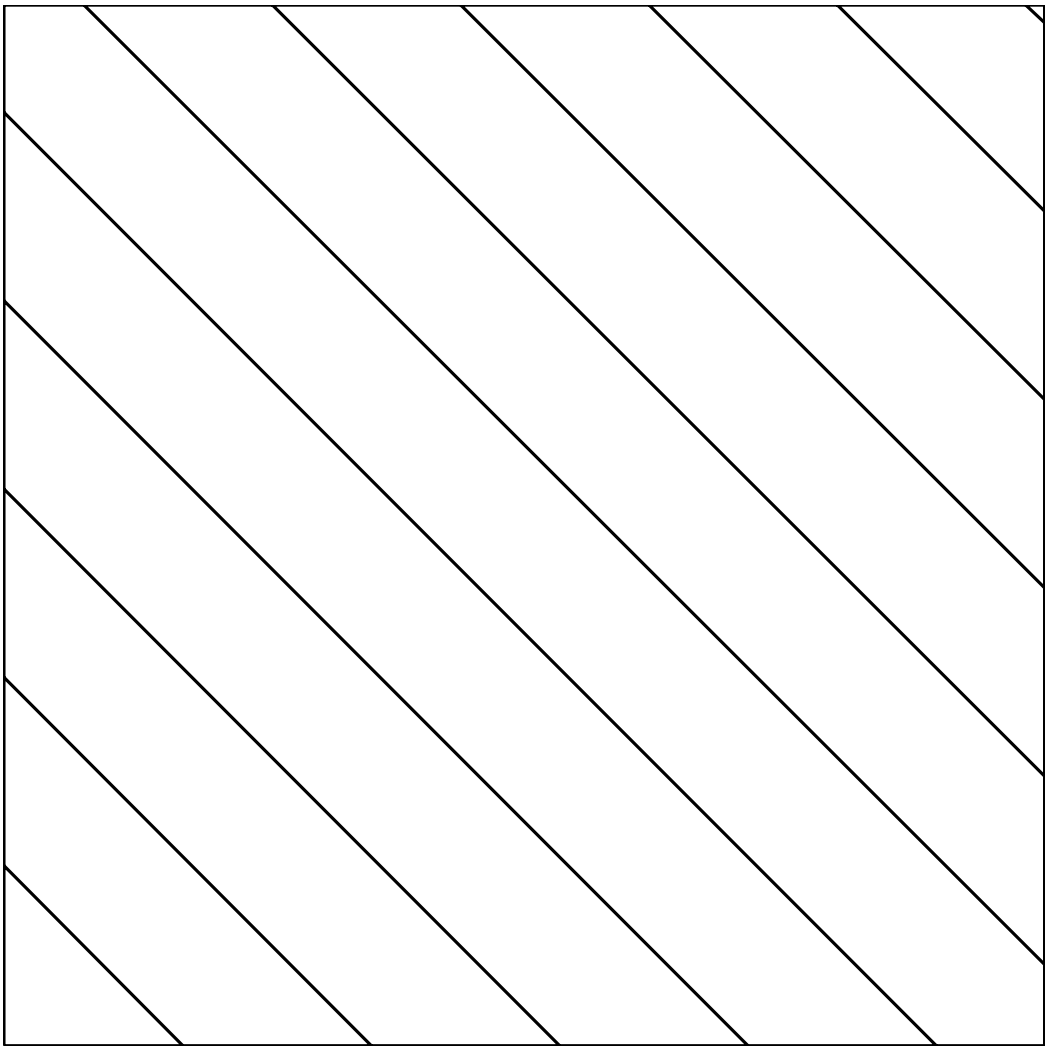


Figure 8-4. PURPOSE OF MANUAL (1)Time and Frequency Processor Assembly.

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
8 4	9522304-101	98747	TIME AND FREQUENCY PROCESSOR ASSY UNIT 3 test 68 (See Figure 8-3 for NHA)	REF		PAODDT
1	A9005-950	00053	. ADAPTER, VMEBUS UNIT 3 test 68 ..... (VID 9522236-002)	1		PAODDT
2	BC635VME	03332	. CIRCUIT CARD ASSY - Time and Frequency Processor UNIT 3 test 68 ..... (VID 9522237-001)	1		PAODDT

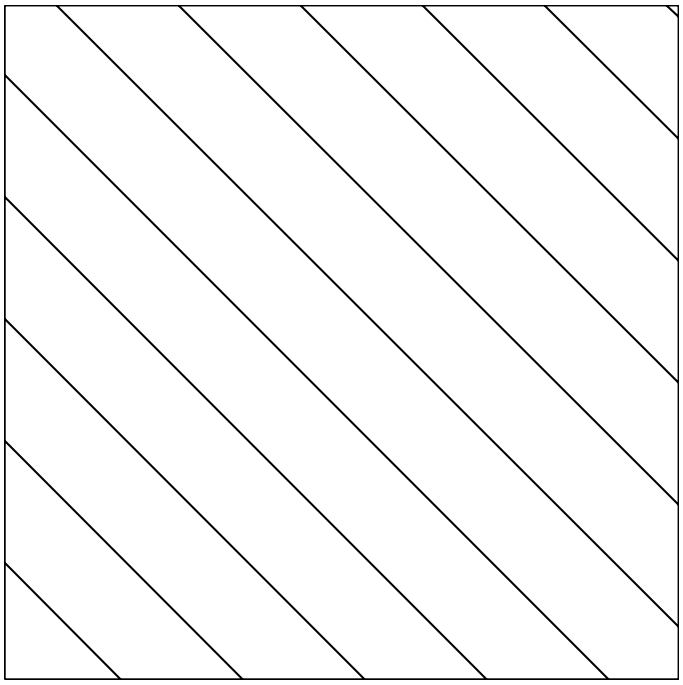


Figure 8-5. PURPOSE OF MANUAL (1)Serial Communication Processor Assembly.

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
8 5	9522279-101	98747	SERIAL COMMUNICATION PROCESSOR ASSY UNIT 3 test 68 ..... (See Figure 8-4 for NHA)	REF		PAODDT
1	A9005-V54	00223	. ADAPTER, Serial Communication Processor UNIT 3 test 68 (VID 9522207-001)	1		PAODDT
2	VCOM-54	26820	. CIRCUIT CARD ASSY, Serial Communication Processor UNIT 3 test 68 ..... (VID 9522205-001)	1		PAOLDT

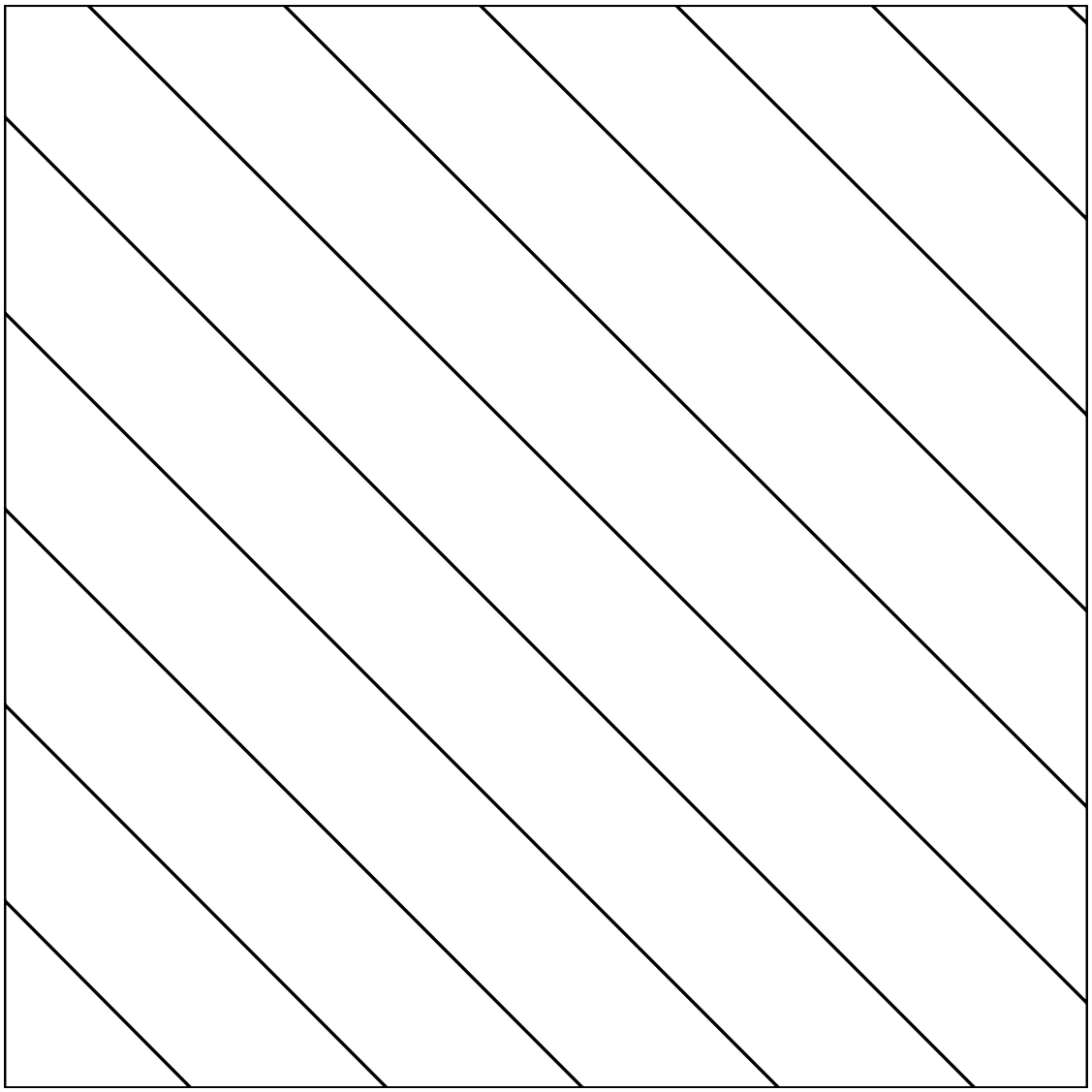


Figure 8-6. PURPOSE OF MANUAL (1)SOC Console Assembly Unit 19.

FIGURE & INDEX/ SHEET NO.	PART NUMBER	CAGE	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE	SMR CODE
8 6	9522234-101	98747	WORKSTATION ASSY UNIT 3 test 68 ..... (See Figure 8-5 for NHA)	REF		XB
1	4DX2-66	05358	. COMPUTER SYSTEM, Digital UNIT 19 test 68 ..... (VID 9522333-001)	1		XB

SECTION III NUMERICAL INDEX

PART NUMBER	FIGURE & INDEX NO.
4DX2-66	8-1
9522229-101	8-2
9522233-101	8-1
9522233-101	8-3
9522234-101	8-2
9522234-101	8-6
9522279-101	8-3
9522279-101	8-5
9522290-101	8-7
9522296-101	8-11
9522296-102	8-12
9522296-103	8-13
9522296-104	8-14
9522297-101	8-15
9522297-102	8-16
9522298-101	8-8
9522300-101	8-9
9522300-102	8-10
9522304-101	8-2

PART NUMBER	FIGURE & INDEX NO.
9522304-101	8-4
9522350-101	8-18
9522353-102	8-17
9522431-001	8-
9522431-001	8-
9522445-101	8-1
A9005-950	8-1
A9005-V54	8-1
BC00103	8-
BC635VME	8-2
D-48604-S3	8-
EBN25C-0025-MM	8-
EDN12H	8-
EYN600-0006-MM	8-
EYN600-0020-MM	8-
GPS-C030	8-
GPSTATION	8-5
LQ-2550	8-4
M39012/12-0101	8-

PART NUMBER	FIGURE & INDEX NO.
M39012/17-0101	8-
MODEL 501	8-6
MS24308/4-7	8-
MS3368-1-9B	8-
MS3368-1-9B	8-
P-TER2	8-4
SW250A	8-3
TTW2.5F	8-
TTW2.5F	8-
TTW2.5F	8-
TTW2.5F	8-
TTW2.5F	8-
TTW2.5F	8-
U125D1S25A1	8-21
U125D1S25A1	8-21
UBCB0140H25YJ	8-20
UDC83020C25RT03	8-19
VCOM-54	8-2

SECTION IV REFERENCE DESIGNATION INDEX

REFERENCE DESIGNATION	FIGURE & INDEX NO.
UNIT 18	8-1
UNIT 19	8-2
UNIT 66	8-3

REFERENCE DESIGNATION	FIGURE & INDEX NO.
UNIT 68 Processing	8-4
UNIT 21	8-5
UNIT 22	8-6

REFERENCE DESIGNATION	FIGURE & INDEX NO.
UNINTERRUPT-IBLE	8-19
UNIT 3	8-19
UNIT 19	8-6

APPENDIX A

TEST NUMBER 1

A.1 TESTING.

This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose.

A.2 HCP TESTING.

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A.5 TESTING.

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A.6 TESTING.

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APPENDIX B

TEST NUMBER 2

B.1 TESTING.

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B.2 TESTING.

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B.3 TESTING.

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B.4 TESTING.

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B.5 TESTING.

This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose. This is a test paragraph to prove FOSI code valid for this particular purpose.

B.6 HCI TESTING.

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GLOSSARY

A

Ardvark	A possible definition for this letter when really no definition exists
Armadillo	A possible definition for this letter when really no definition exists

B

Bat	A possible definition for this letter when really no definition exists
Bird	A possible definition for this letter when really no definition exists

C

Cat	A possible definition for this letter when really no definition exists
Cougar	A possible definition for this letter when really no definition exists

D

dog	A possible definition for this letter when really no definition exists
dolphin	A possible definition for this letter when really no definition exists

E

Elephant	A possible definition for this letter when really no definition exists
Elk	A possible definition for this letter when really no definition exists

F

Finch	A possible definition for this letter when really no definition exists
Frog	A possible definition for this letter when really no definition exists

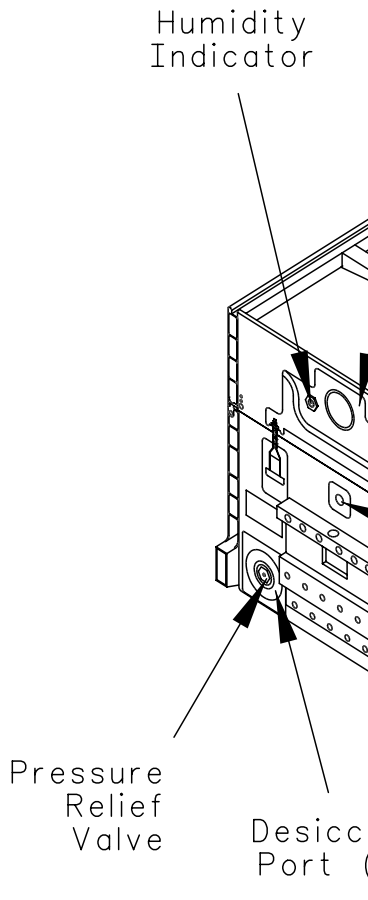
G

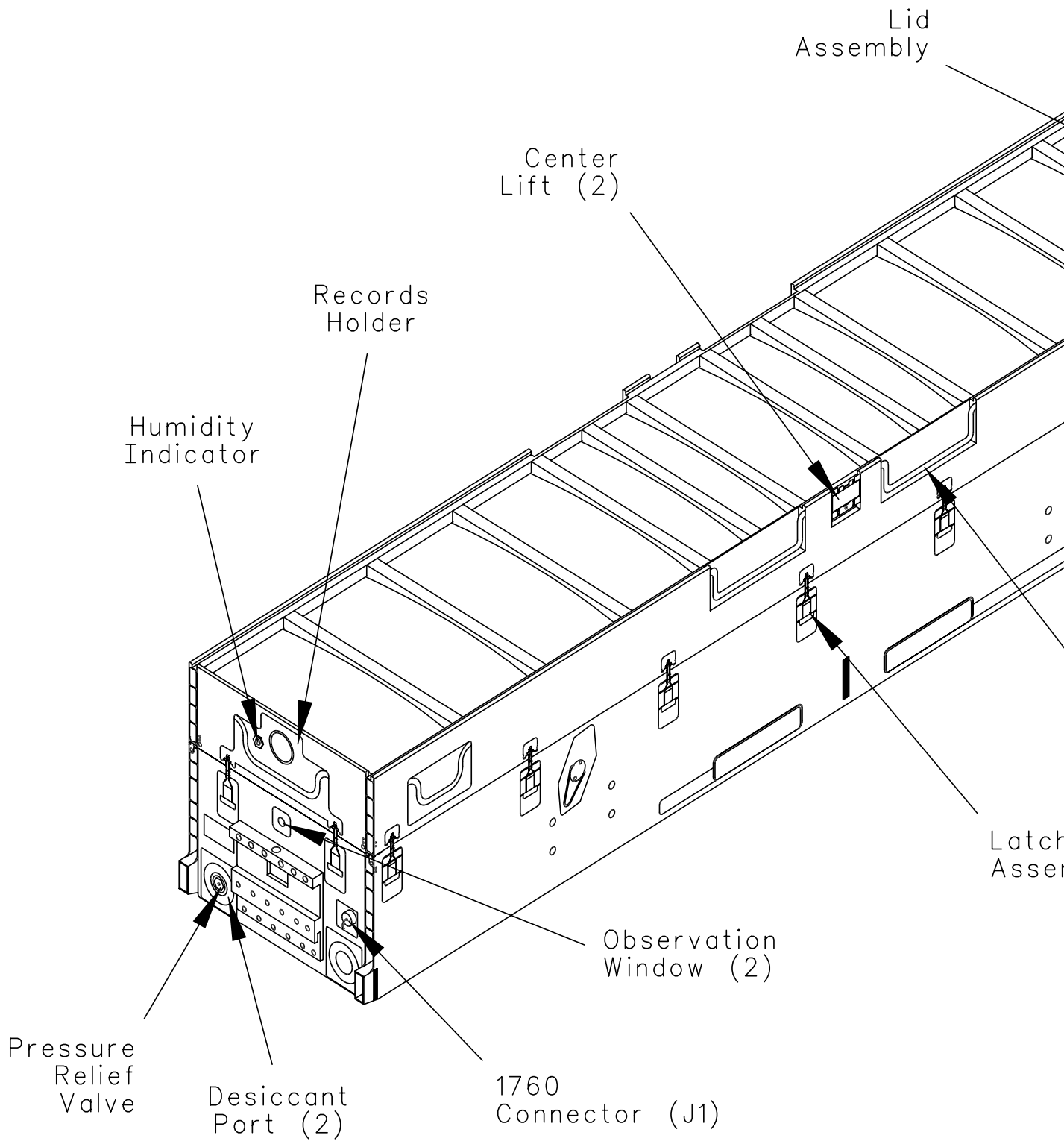
Goat	A possible definition for this letter when really no definition exists
Goose	A possible definition for this letter when really no definition exists

H

Hen	A possible definition for this letter when really no definition exists
Hippopatamus	A possible definition for this letter when really no definition exists

INDEX


Humidity
Indicator
Pressure
Relief
Valve
Desicc
Port


Lid
Assembly
Center
Lift (2)
Records
Holder
Humidity
Indicator
Latch
Assem
Observation
Window (2)
Pressure
Relief
Valve
Desiccant
Port (2)
1760
Connector (J1)